

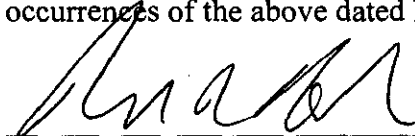
Meeting Minutes Transmittal

PFP Project Managers Meeting
Federal Building/Room 249

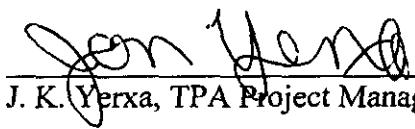
Richland, Washington

April 18, 2001
9:00 a.m. to 10:00 a.m.**RECEIVED**
MAY 29 2001**EDMC**

The undersigned indicate by their signatures that these meeting minutes reflect the actual occurrences of the above dated Project Managers Meeting.



M. R. Hahn, PFP Project Manager, DOE-RL

Date: 5/23/01

J. K. Yerxa, TPA Project Manager, DOE-RL

Date: 5/17/01F. W. Bond, Project Manager,
Washington State Department of EcologyDate: 5/17/01

PFP, FH Concurrence:



L. R. Fitch, Contractor Representative, FH

Date: 5/17/01

Purpose: Project Managers Meeting

- Attachment 1: Agenda & Action Item List
Attachment 2: Meeting Minutes
Attachment 3: Attendee List

Attachment 1

PFP Project Managers Meeting Agenda Federal Building/Room 249 Richland, Washington

**April 18, 2001
9:00 a.m. to 10:00 a.m.**

1. Administrative Issues
 - a. Approval of the March Meeting Minutes
 - b. Action Tracking Review
 - c.
2. PFP Project Item Status
 - a. PFP Project Overview Status – Larry Fitch
 - b. Group I Pu/Aluminum Alloys Characterization – Andrea Hopkins
 - c. HA-20MB glovebox non-RCRA use - Karl Hadley
 - d. TPA Negotiation Planning Status - Jon Yerxa
3. Conduct Technical Negotiation Discussions (TNDs)
 - a. Project Baseline/DNFSB [complete 9/26]
 - b. PFP Tour (scheduled 10/18) [complete]
 - c. IPMP Detailed Overview (scheduled 10/19) [complete]
 - d. Residues Overview-Hanford Ash (scheduled 10/25) [complete]
 - e. WIPP Interface (scheduled 11/16) [complete]
 - f. TPA Section 8 Overview (scheduled 11/30) [complete]
 - g. Hanford Ash Characterization/Designation (scheduled 12/19) [complete]
 - h. WIPP Interface (scheduled 1/3) [complete]
 - i. Pu alloys (scheduled 1/17) [complete]
 - j. AEA/RCRA Storage Issue (scheduled 2/14) [complete]
 - k. IPMP Transition Planning I (scheduled 2/23) [complete]
 - l. Hanford Ash Characterization/Designation (scheduled 3/15) [complete]
 - m. IPMP Transition Planning I I (June)
 - n. Waste versus Material discussion (June)
 - o. Tank 241 (June)
 - p. Introduction to Vessel Inventory planning (June)
 - q. Tank Z 361 (June)
4. New Topics
5. Next meeting is May 17, Federal Building, Room 244B, 3:30 – 4:30 p.m.

ACTION TRACKING LIST

Action	Assignee	Date Established/ Due Date	Status
1. Develop writeup for glovebox HA-20MB non-RCRA use	Karl Hadley	2/14/2001 PMM TBD	Internal draft
2. Document the issues Ecology has on RL's approach to the management of plutonium-bearing dangerous waste in storage in PFP vaults and vault-like rooms	Laura Ruud Bob Wilson	2/14/2001 PMM TBD	In work
3. Document the issues related to the PFP TPA section transition project and any other PFP related issue topics that Ecology feels need to be addressed.	Laura Ruud Bob Wilson	2/14/2001 PMM TBD	In work
4. Send Rick Bond L-clearance request letter from Ecology mgt to RL	Rick Bond	2/14/2001 PMM TBD	Paperwork is in progress
5. Provide Rick Bond with IPMP update date.	Larry Fitch	3/21/2001 PMM 4/18/2001	In work – issuance contingent on budget
6. Provide Rick Bond with PFP performance information & discuss metrics	Mark Hahn Rick Bond	3/21/2001 PMM 4/18/2001	Complete

Attachment 2
Summary of Discussion and Commitments/Agreements

PFP Project Managers Meeting
Federal Building/Room 249
Richland, Washington

April 18, 2001
9:00 a.m. to 10:00 a.m.

ADMINISTRATIVE ISSUES

Reviewed action items and discussed status.

Karl Hadley - A presentation was provided to Ecology on February 14, 2001 on RCRA – Equivalent Management of Pu-Bearing Dangerous Waste. Karl notified Ecology that PFP is moving forward with the implementation of management standards for plutonium-bearing dangerous wastes in PFP vaults and vault like rooms. RL has not been provided any feedback from Ecology on the February 14, 2001 presentation.

Rick Bond - Wants to schedule a meeting to discuss the TPA negotiations process with RL staff.

Rob Piippo - RL is very interested in meeting with Rick to discuss PFP TPA negotiations and will discuss with Jon Yerxa at the 5/17 PMM.

PFP PROJECT OVERVIEW STATUS - Larry Fitch

Larry Fitch - Provided a PFP status handout and discussed the current status of the facility. Of special interest was the projects need to package Group I Pu/Al alloys by the end of June. The Group I Pu/Al alloys are 31 items that would go into 9 POCs over 2-4 weeks. Repackaging would start 1st of June or earlier, if possible.

Mark Hahn - Discussed the need to shutdown the Hanford Ash for a short time and run a repackaging campaign of the Group I Pu/Al alloys due to the waste being a higher risk than Hanford Ash. The DNFSB has identified the Group I Pu/Al alloys risk as higher than the Hanford Ash and the project needs to get them packaged.

Larry Oates - A presentation on the designation of Group I Pu/Al alloys was provided. In summary, they are not hazardous by definition, because Pu and Al are not regulated metals. Pu and Al were high purity with cryolite being added for 6 of the 31 items. The Group I items are TRU only and no sampling is recommended for designation.

Rick Bond - Will review the presentation and discuss it with Ecology staff and respond to RL at the 5/17 PMM.

Mark Hahn - The HQ PFP negotiation strategy is in work and RL is on schedule to meet the begin PFP transition negotiations by June 1, 2001 commitment.

Rick Bond - Will talk to Roger Stanley about the June PFP negotiations schedule and the impact FFTF may present as it is ahead of PFP in the negotiations queue.

NEW TOPICS

Karl Hadley - Discussed a new topic, Revision to Pipe and Go Packaging Process. In order to lower the dose rate received from items currently staged in lard cans/wagons in Room 170, Room 169 may be used as a lag storage area. Specifically, Hanford Ash containers may be moved from the vaults to Room 169 and staged in up to three lard cans in two wagons. It is anticipated they could be staged in room 169 for approximately 48 hours prior to being moved into room 170 for packaging in the HC-46F glovebox. It was suggested that this PMM documented notification of the revision would provide Ecology adequate notice and that amending the recently approved TPA CR for Hanford Ash was not required.

Rick Bond - Assume that it is OK to document the revision in this PMM and he will review with Ecology staff and notify RL if it is an issue at the 5/17 PMM.

Attachment 3
Attendance List

Meeting Title: PFP Project Managers Meeting

Date: April 18, 2001

Original included in hard copy

Name	Company	Phone Number
Mark R. Hahn	DOE-RL	373-9872
Astrid P. Larsen	DOE-RL	372-0477
Rick Bond	Ecology	736-3007
Larry Oates	EQM	588-5529
L. R. Fitch	FH	376-7536
Karl A. Hadley	FH	372-2852
Andrea M. Hopkins	FH	373-5395
Rob E. Piippo	FH	373-3285
Julie R. Robertson	FH	376-8162

REVISION TO PIPE AND GO PACKAGING PROCESS

In order to lower the dose rate received from items currently staged in lard cans/wagons in Room 170, Room 169 may be used as a lag storage area. Specifically, Hanford ash containers may be moved from the vaults to Room 169 and staged in up to three lard cans in two wagons. It is anticipated they could be staged in Room 169 for approximately 48 hours prior to being moved into Room 170 for packaging in the HC-46F glovebox.

Current PFP Status

L. R. Fitch

April 18, 2001

Safety Performance

- Last “lost time injury” occurred 12/03/99
- PFP has exceeded 1,600,000 hrs. w/o LTI

Residues

- All of RF ash repackaged
- 331 Kg. packaged
- 299 Pipe Overpack Containers Packed
- All POCs shipped to CWC 3/29/01

MUFFLE FURBACE

Thermal Stabilization

Fy'99– 150 items stabilized

Fy'00– 585 items

Fy'01– 160 items

895 total

Solutions Stabilization

- Fy'00-103 liter
- Fy'01-- 350liters

453 total

BEHIND SCHEDULE
TRYING TO RECOVER

Bagless Transfer System

- Fy'00– 1 BTC welded
- Fy'01– 122 BTC welded
INTER CANS
- W-460 project *ABRIL*
- Outercan welder startup– May 10
- 5 Outer cans welded
- 25+ O.C.s welded for tests

Plutonium Alloys

Group I

Larry Oates

EQM

Process History

- Experimental fuel fabrication in the 308 Building
- Fuel element studies in the PRTR in the 300 Area
- Fuels for reactor fuel studies at other DOE sites

Process History (cont.)

- Pu-Al alloy fuel fabrication = metallurgical and mechanical processes:
 - furnace melting and casting,
 - extrusion,
 - forging,
 - pressing,
 - drawing, and
 - machining.

Process History (cont.)

- Graphite molds and crucibles used - no lubrication
- Scrap recycled to recover plutonium
- No solvents or lubricants

Process History (cont.)

- Plutonium Handbook:
 - *Alloys melted at 800 to 950°C for one hour in air, cast at 725 to 800°C.*
 - *Casting skulls and metal scrap re-melted under cryolite.*
 - *Breakdown of ingots and roll-bonding at 500 to 600°C.*
 - *Cast billets forged in dies heated to 400°C.*

Process History (cont.)

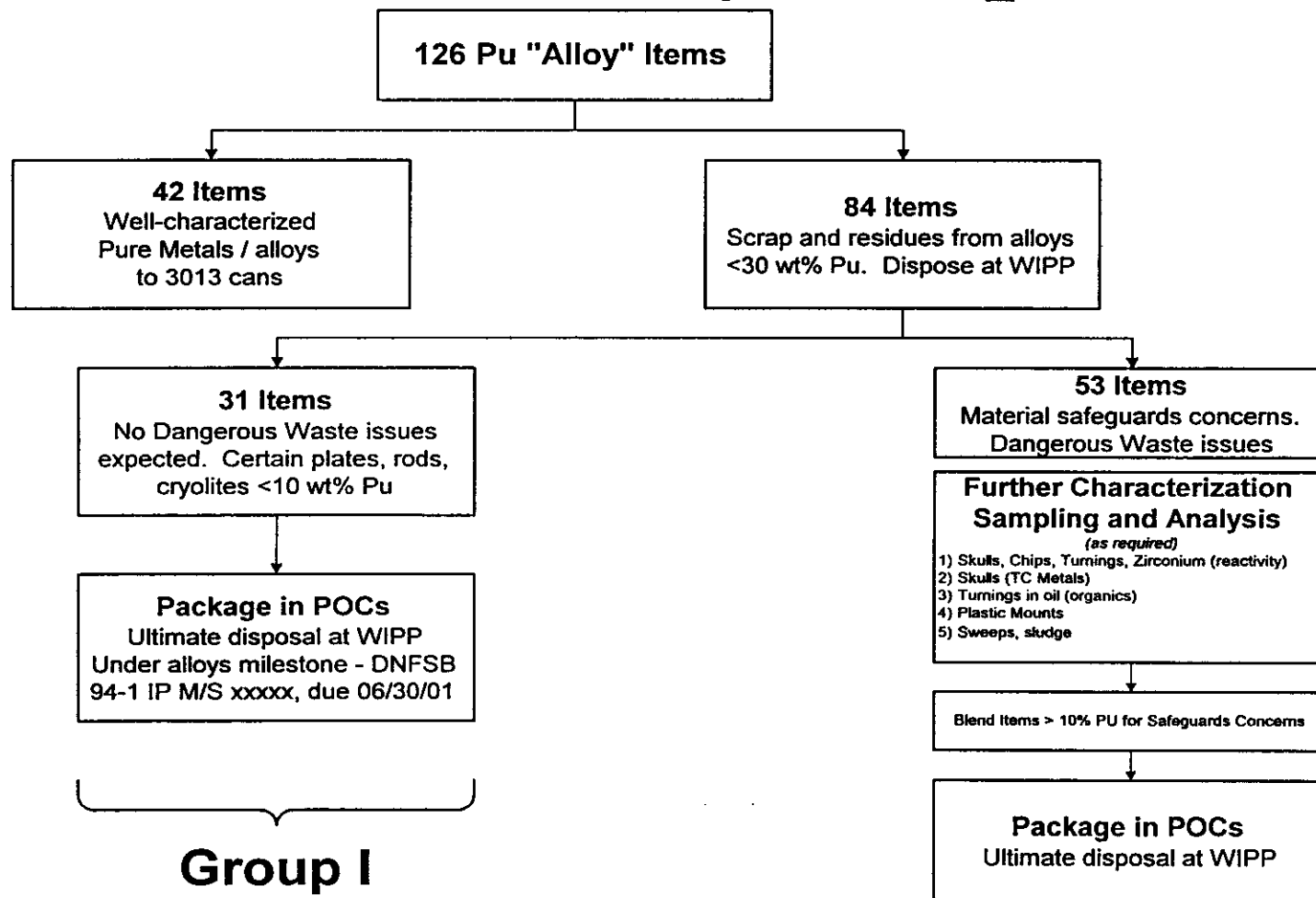
- Plutonium Handbook (cont.):
 - *Clean billets assembled, welded, heated at 520°C for 10 hours.*
 - *Unrolled assemblies heated at 590°C for a minimum of 2-1/2 hours.*
 - *Plates heated at 500°C for 30 minutes; 600°C for 30 minutes; examined.*
 - *Elements machined to ensure precise fit.*

Group I Description

Group I Identification

- 31 items for “as-is” disposition to WIPP
- Pu-Al alloy for reactor fuel, process materials
- Plates, rods, and billets from fuel manufacturing process
- Plates = strips of Pu alloys clad with aluminum

Plutonium Alloys Disposition



Group I Source

- Shipped to PFP from Battelle Northwest Laboratories in the 300 Area
- Inventory lists and labels identify source
- Descriptions indicate from Pu-Al fabrication

Group I Description

- Plutonium-based fuel materials
- 25 alloy items and 6 cryolite items
- Cryolite
 - Non-reactive inorganic salt used as flux
 - Natural mineral used in aluminum processing
 - Chemical composition = Na_3AlF_6
 - Added to facilitate alloying reaction

Special Nuclear Material Exclusion

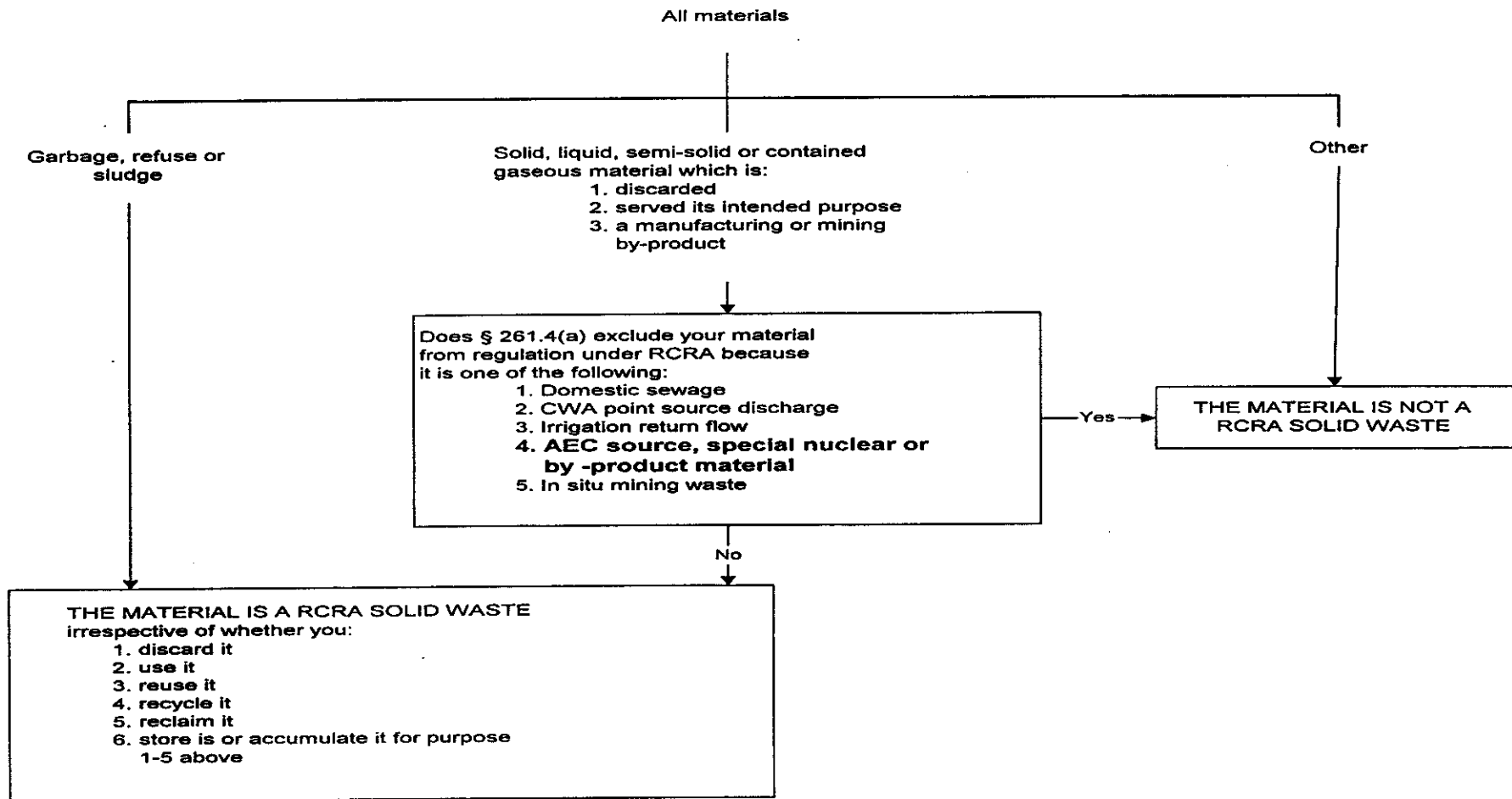
- Material must meet definition of solid waste.
- RCRA excludes “source, special nuclear, or byproduct material.”
- SNM defined by AEA.

Special Nuclear Material (SNM)

- (1) Plutonium, uranium-233, uranium enriched in the isotope 233 or in isotope 235, and any other material that the NRC, pursuant to the provisions of section 51 of the AEA, determines to be SNM, but does not include source material; or
- (2) any material artificially enriched by any of the foregoing but does not include source material”.

– *Atomic Energy Act (10 CFR 20.1003)*

Definition of a Solid Waste



Source: 40CFR 260, Appendix I

Group I Management

- DOE policies and procedures indicate that Group 1 items designate as SNM
 - *DOE Directive 471.1 (formerly DOE Order 5633.3),*
 - *RLID 5633.3.*
- Group I materials excluded from regulation as solid waste.
- No special handling or other problems.
 - *PFP processed Pu-Al fines, saw chips, and cut-up fuel plates in the SS&C dissolvers without special handling problems.*

Summary

- Not hazardous by definition
- Pu and Al are not regulated metals
- Pu and Al were high purity -contaminants would affect fuel performance
- Cryolite - no regulated metals, no hazardous or dangerous characteristics

Designation for Group I Materials

- TRU only
- No sampling recommended for designation

Pu Al Alloys - Group I Items

Subgroup	Item #	Description	Description
		Repkg Recs	History Files
Clad Plates	CE-3-80-1-1	Pu Al Clad Plates	Al Clad Plates (Rpkgd, -(entry only for 80-1)
Clad Plates	CE-3-80-2-4	Pu Al Clad Plates	Al Clad Plates (Rpkgd, -(entry only for 80-2)
Clad Plates	CE-3-80-3-3	Pu Al Clad Plates	Al Clad Plates (Rpkgd in 10 cans, -(entry only for 80-3)
Clad Plates	CE-3-80-2-2	Pu Al Clad Plates	Al Clad Plates (Rpkgd, -(entry only for 80-2)
Clad Plates	CE-3-80-3-2	Pu Al Clad Plates	Al Clad Plates (Rpkgd in 10 cans, -(entry only for 80-3)
Clad Plates	CE-3-80-4-3		Al Clad Plates (Rpkgd, -(entry only for 80-4)
Clad Plates	CE-3-80-5-3	PU AL Scrap	Al Clad Plates, Al Pu Scrap -(entry only for 80-5)
Clad Plates	CE-3-80-4-5		Al Clad Plates (Rpkgd, -(entry only for 80-4)
Clad Plates	CE-3-80-4-1		Al Clad Plates (Rpkgd, -(entry only for 80-4)
Clad Plates	CE-3-80-4-4		Al Clad Plates (Rpkgd, -(entry only for 80-4)
Clad Plates	CE-3-80-3-1	Pu Al Clad Plates	Al Clad Plates (Rpkgd in 10 cans, -(entry only for 80-3)
Clad Plates	CE-3-80-3-7	Pu Al Clad Plates	Al Clad Plates (Rpkgd in 10 cans, -(entry only for 80-3)
Clad Plates	CE-3-80-1-4	Pu Al Clad Plates	Al Clad Plates (Rpkgd, -(entry only for 80-1)
Clad Plates	CE-3-80-3-4	Pu Al Clad Plates	Al Clad Plates (Rpkgd in 10 cans, -(entry only for 80-3)
Clad Plates	CE-3-80-1-2	Pu Al Clad Plates	Al Clad Plates (Rpkgd in 10 cans, -(entry only for 80-1)
Clad Plates	CE-3-80-3-6	Pu Al Clad Plates	Al Clad Plates (Rpkgd in 10 cans, -(entry only for 80-3)
Clad Plates	CE-3-80-4-2		Al Clad Plates (Rpkgd, -(entry only for 80-4)
Clad Plates	CE-3-80-2-1	Pu Al Clad Plates	Al Clad Plates (Rpkgd, -(entry only for 80-2)
Clad Plates	CE-3-80-3-5	Pu Al Clad Plates	Al Clad Plates (Rpkgd in 10 cans, -(entry only for 80-3)
Clad Plates	CE-3-80-2-3	Pu Al Clad Plates	Al Clad Plates (Rpkgd, -(entry only for 80-2)
Clad Plates	CE-3-80-4-6		Al Clad Plates (Rpkgd, -(entry only for 80-4)
Clad Plates	CE-3-80-5-4	Pu Al Scrap	Al Clad Plates (Rpkgd, -(entry only for 80-5)
Clad Plates	CE-3-80-1-3	Pu Al Clad Plates	Al Clad Plates (Rpkgd, -(entry only for 80-1)
Cryolite	CE-3-80-10-2	PuAl Cryolite	Al Pu in Cryolite Rpkgd - (entry only for -80-10)
Cryolite	CE-3-80-10-4	PuAl Cryolite	Al Pu in Cryolite Rpkgd - (entry only for -80-10)
Cryolite	CE-10-1-9-5	PuAl Cryolite	Pu Cryolite Flux - Appears like welder slag, WHX-WOX Flux
Cryolite	CE-3-80-10-5	PuAl Cryolite	Al Pu in Cryolite Rpkgd - (entry only for -80-10)
Cryolite	CE-3-80-10-3	PuAl Cryolite	Al Pu in Cryolite Rpkgd - (entry only for -80-10)
Cryolite	CE-3-80-10-1	PuAl Cryolite	Al Pu in Cryolite Rpkgd - (entry only for -80-10)
Rods/Extrusion Pieces	62-319-2		Al Rods (Pu Zirc Scrap)
Rods/Extrusion Pieces	CE-443-6-3		PuO2 Alloy Blends, Aluminum Rods, Al Pu alloy

Distribution:

F. W. Bond	Ecology	B5-18
S. E. Clarke	DOE-RL	A6-38
D. A. Faulk	EPA	B5-01
L. R. Fitch	FH	T5-57
A. M. Hopkins	FH	H5-24
K. A. Hadley	FH	T5-57
M. R. Hahn	DOE-RL	R3-79
R. E. Piippo	FH	A1-14
J. R. Robertson	FH	L0-33
O. S. Wang	Ecology	B5-18
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ADMINISTRATIVE RECORD (two copies): A1-14

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Please send comments on distribution list to Lori D. Crass (A1-14), 509-373-9485